```
CCCCCCCCCCCC    LLL              DDDDDDDDDDD
CCCCCCCCCCCC    LLL              DDDDDDDDDDD
CCCCCCCCCCCC    LLL              DDDDDDDDDDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
CCC             LLL              DDD          DDD
    CCCCCCCCCCC LLLLLLLLLLLLLLL  DDDDDDDDDDD
    CCCCCCCCCCC LLLLLLLLLLLLLLL  DDDDDDDDDDD
    CCCCCCCCCCC LLLLLLLLLLLLLLL  D DDDDDDDDD
```

```
EEEEEEEEEE  NN      NN   CCCCCCC   RRRRRRR    YY      YY   PPPPPPPP   TTTTTTTTTT
EEEEEEEEEE  NN      NN   CCCCCCC   RRRRRRRR   YY      YY   PPPPPPPP   TTTTTTTTTT
EE          NN      NN   CC        RR     RR  YY      YY   PP     PP      TT
EE          NN      NN   CC        RR     RR  YY      YY   PP     PP      TT
EE          NNNN    NN   CC        RR     RR    YY   YY    PP     PP      TT
EE          NNNNN   NN   CC        RR     RR    YY   YY    PP     PP      TT
EEEEEEE     NN  NN  NN   CC        RRRRRRRR       YY       PPPPPPPP       TT
EEEEEEE     NN  NN  NN   CC        RRRRRRRR       YY       PPPPPPPP       TT
EE          NN   NNNN    CC        RR  RR         YY       PP             TT
EE          NN   NNNN    CC        RR  RR         YY       PP             TT
EE          NN      NN   CC        RR    RR       YY       PP             TT        ....
EE          NN      NN   CC        RR    RR       YY       PP             TT        ....
EEEEEEEEEE  NN      NN   CCCCCCC   RR     RR      YY       PP             TT        ....
EEEEEEEEEE  NN      NN   CCCCCCC   RR     RR      YY       PP             TT        ....


    CCCCCCC   LL          DDDDDDD
    CCCCCCC   LL          DDDDDDD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
CC            LL          DD     DD
    CCCCCCC   LLLLLLLLLL  DDDDDDD
    CCCCCCC   LLLLLLLLLL  DDDDDDD
```

```
!       Title encrypt.cld Command Definition for ENCRYPT/DECRYPT
!       Version 'V04-000'

! Modified by:

!       V01-002 MSH0073         Michael S. Harvey        15-Aug-1984
!               Add support for /JOB qualifier.

!       V01-001 JEP0004         J. Eric Pollack          12-Aug-1983
!               Revise syntax. Remove /supermode...


! Command definition for the VAX/VMS ENCRYPTION Facility


! define the type for the /ALGORITHM= list

DEFINE TYPE algorithm_option
        KEYWORD DES,
        KEYWORD DESECB,
        KEYWORD DESCBC,default
        KEYWORD DESCFB,
        KEYWORD DESDAC,
        KEYWORD RSA,
        KEYWORD ALC,
        KEYWORD VPA,
        KEYWORD NUL
!
! Define the syntax of the facility command to define encryption keys
!
define syntax create_encrypt_key
        qualifier CREATE_KEY,default
        parameter p1,prompt="Key Name",value(required,type=$inlog)
        parameter p2,prompt="Key Value",value(required,type=$outlog)
        qualifier compress
        qualifier group
        qualifier hexadecimal,negatable,value(default=NOHEXADECIMAL)
!3      qualifier hexadecimal,value(default=NOHEXADECIMAL)
        qualifier log
        qualifier parity
        qualifier process,default
        qualifier system
        qualifier job
        disallow any2(system,group,process,job)
        disallow hexadecimal and compress
        disallow hexadecimal and parity
!
! Define the syntax of the facility command to delete encryption keys
!
define syntax eliminate_encrypt_key
        qualifier REMOVE_KEY,default
!3      qualifier CREATE_KEY,negatable,value(default="NOCREATE_KEY")
```

```
        qualifier CREATE_KEY,value(default="NOCREATE_KEY")
        parameter p1,prompt="Key Name",value(required,type=$inlog)
        qualifier system
        qualifier group
        qualifier job
        qualifier process,default
        qualifier log
        disallow any2(system,group,process,job)
!
! Define the syntax of the facility command to test the encryption interfaces
!
DEFINE SYNTAX syntax_test
        QUALIFIER TEST_FACILITY,default
!3      qualifier CREATE_KEY,negatable,value(default="NOCREATE_KEY")
!3      qualifier REMOVE_KEY,negatable,value(default="NOREMOVE_KEY")
        qualifier CREATE_KEY,value(default="NOCREATE_KEY")
        qualifier REMOVE_KEY,value(default="NOREMOVE_KEY")
        QUALIFIER algorithm, VALUE(LIST,
                        TYPE=algorithm_option)
        QUALIFIER input,  DEFAULT, VALUE(DEFAULT="SYS$INPUT",TYPE=$INFILE)
        QUALIFIER log
        QUALIFIER output, DEFAULT, VALUE(DEFAULT="SYS$OUTPUT",TYPE=$OUTFILE)
        QUALIFIER select, VALUE(LIST,DEFAULT="QUICK")
        NOPARAMETERS
!
! Define the root commands
!
DEFINE VERB ENCRYPT
        IMAGE encrypfac
        QUALIFIER CREATE_KEY,SYNTAX = create_encrypt_key
        QUALIFIER REMOVE_KEY,SYNTAX = eliminate_encrypt_key
        QUALIFIER TEST_FACILITY,SYNTAX = syntax_test
        QUALIFIER log
        PARAMETER P1,
                LABEL=INPUT,
                PROMPT="Input File(s)",
                VALUE(REQUIRED,LIST)
        PARAMETER P2,
                LABEL=KEY,
                PROMPT="Key Name",
                VALUE(REQUIRED,TYPE=$INLOG)
        QUALIFIER algorithm,
                VALUE(LIST,TYPE=algorithm_option)
        QUALIFIER delete
        QUALIFIER erase
        QUALIFIER output,
                DEFAULT,
                VALUE(TYPE=$OUTFILE)
        QUALIFIER statistics
        qualifier confirm
        qualifier exclude,value(list)
        qualifier before,value(default=today)
        qualifier since,value(default=today)
        qualifier by_owner,value(type=$uic)

DEFINE VERB DECRYPT
```

```
        IMAGE encrypfac
        PARAMETER P1,
                LABEL=INPUT,
                PROMPT="Input File(s)",
                VALUE(REQUIRED,LIST)
        PARAMETER P2,
                LABEL=KEY,
                PROMPT="Key Name",
                VALUE(REQUIRED,TYPE=$INLOG)
        QUALIFIER algorithm,
                VALUE(LIST,TYPE=algorithm_option)
        QUALIFIER delete
        QUALIFIER erase
        QUALIFIER log
        QUALIFIER output,
                DEFAULT,
                VALUE(TYPE=$OUTFILE)
        QUALIFIER statistics
        qualifier confirm
        qualifier exclude,value(list)
        qualifier before,value(default=today)
        qualifier since,value(default=today)
        qualifier by_owner,value(type=$uic)
```

BACKUP
CLD

DCLTABLES
CLD

DISMOUNT
CLD

ENCRYPT
CLD

REPLY
CLD

CLD

CREATE
CLD

MCRINT
CLD

SET
CLD

DCLTABLES
MAP

DEF
CLD

DMO
CLD

LIBRARIAN
CLD

PASCAL
CLD

RUN
CLD

ACC
CLD

BAD
CLD

DCLINT
CLD

DELETE
CLD

DUMP
CLD

EXCHANGE
CLD

MCRTABLES
CLD

PATCH
CLD

CHECKSUM
CLD

ANALYZE
CLD

EDIT
CLD

FORTRAN
CLD

LINK
CLD

MESSAGE
CLD

PHONE
CLD

CLISYM1
CLD

MCRSET
CLD

RUNOFF
CLD

PSECTS
R32

DIFF
CLD

MONITOR
CLD

RECOVER
CLD

MCRTABLES
MAP

CONVERT
CLD

HELP
CLD

MACRO
CLD

DIRECTORY
CLD

SDL
CLD

JNLUSR
MAR

COPY
CLD

EDT
CLD

INIT
CLD

MOUNT
CLD

RENAME
CLD

MAIL
CLD

SEARCH
CLD